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PATENT APPLICATION

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant(s): Yutaka MIYAMOTO, et al.  
Title : BUTT WELDING APPARATUS AND BUTT WELDING METHOD

Serial No. : 10/523 579 Group: 3742  
Confirmation No.: 1367  
Filed : January 28, 2005 Examiner: Unknown  
International Application No.: PCT/JP2004/007743  
International Filing Date : May 28, 2004  
Atty. Docket No.: Ace Case 12

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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Correspondence: Request for Corrected Filing Receipt dated  
March 7, 2006 with enclosures listed thereon

190.05/05

PATENT APPLICATION



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Respectfully submitted,

  
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CONFIRMATION NO. 1367

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## Applicant(s)

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## Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/07743 ~~05/28/2003~~  
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## Foreign Applications

JAPAN 2003-160548 06/05/2003

**Projected Publication Date:** 12/01/2005

**Non-Publication Request:** No

**Early Publication Request:** No

## Title

Butt welding device and butt welding method

**Preliminary Class**

219

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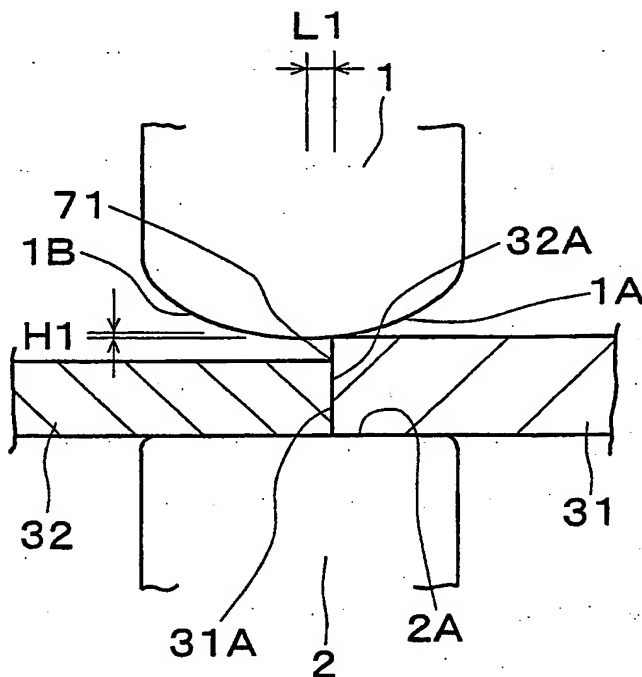
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[続葉有]

(54) Title: BUTT WELDING DEVICE AND BUTT WELDING METHOD

(54) 発明の名称: 突き合わせ溶接装置及び突き合わせ溶接方法



(57) Abstract: Of a pair of electrode members (1, 2) for butt welding two plates (31, 32), at least one electrode member (1) has an outer surface formed as a retracted shape section (1A) which gradually retracts from one plate (31) as it extends from the thickness-wise intermediate portion of the one electrode member (1) toward one plate (31) of the two plates (31, 32). The butt welding of the two plates (31, 32) is effected by offsetting the position of the butt portion (71) of these plates (31, 32) from the thickness-wise intermediate portion of the electrode members (1, 2) toward the retracted shape section (1A) by an amount (L1) corresponding to the difference in thickness between these plates (31, 32), while the butt welding of other two plates different in thickness is effected by changing the offset.

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